

SEQUENCE LISTING

<110> Zealand Pharma A/S

<120> PEPTIDE YY ANALOGUES

<130> 15694DK00

<160> 23

<170> PatentIn version 3.2

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<212> PRT

<213> Homo sapiens

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Tyr Pro Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu
1 5 10 15

Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr
 20 25 30

Arg Gln Arg Tyr
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<210> 2

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<212> PRT

<213> Homo sapiens

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<222> (1)..(34)

<223> SEQ ID NO: 1, residues 3-36

<400> 2

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 3
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<222> (1)..(34)
<223> SEQ ID NO: 2, residues 1-34

<400> 3

Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr Lys Lys Lys Lys Lys Lys
35 40

<210> 4
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<222> (7)..(40)

<223> SEQ ID NO: 2, residues 1-34

<400> 4

Lys Lys Lys Lys Lys Lys Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala
1 5 10 15

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
20 25 30

Asn Leu Val Thr Arg Gln Arg Tyr
35 40

<210> 5

<211> 46

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<222> (7)..(40)

<223> SEQ ID NO: 2, residues 1-34

<400> 5

Lys Lys Lys Lys Lys Lys Ile Lys Pro Glu Ala Pro Gly Glu Asp Ala
1 5 10 15

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
20 25 30

Asn Leu Val Thr Arg Gln Arg Tyr Lys Lys Lys Lys Lys Lys
35 40 45

<210> 6

<211> 34

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<223> SEQ ID NO: 2, residues 2-28

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<222> (30)..(34)

<223> SEQ ID NO: 2, residues 30-34

<400> 6

Cys Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Cys Thr Arg Gln
20 25 30

Arg Tyr

<210> 7

<211> 34

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<223> SEQ ID NO: 2, residues 2-25

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<222> (27)..(34)
<223> SEQ ID NO: 2, residues 27-34

<400> 7

Cys Lys Pro Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Cys Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 8
<211> 34
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<223> SEQ ID NO: 2, residues 25-34

<400> 8

Ile Lys Cys Glu Ala Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg Cys Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 9

<211> 34

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<223> SEQ ID NO: 2, residues 1-4

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<222> (6)..(21)

<223> SEQ ID NO: 2, residues 6-21

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<222> (23)..(34)

<223> SEQ ID NO: 2, residues 23-34

<400> 9

Ile Lys Pro Glu Cys Pro Gly Glu Asp Ala Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Cys Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 10
<211> 33
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<223> Xaa is 4-(2-Aminoethyl)6-dibenzofuranpropionic acid

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<222> (10)..(33)
<223> SEQ ID NO: 2, residues 11-34

<400> 10

Ile Lys Pro Glu Ala Pro Gly Glu Xaa Ser Pro Glu Glu Leu Asn Arg
1 5 10 15

Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg
20 25 30

Tyr

<210> 11

<211> 34

<212> PRT

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<222> (1)..(8)

<223> SEQ ID NO: 2, residues 1-8

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<222> (11)..(34)

<223> SEQ ID NO: 2, residues 11-34

<400> 11

Ile Lys Pro Glu Ala Pro Gly Glu Pro Pro Ser Pro Glu Glu Leu Asn
1 5 10 15

Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln
20 25 30

Arg Tyr

<210> 12

<211> 29

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<223> SEQ ID NO: 2, residues 2-9

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<222> (10)..(23)

<223> SEQ ID NO: 2, residues 20-28

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<222> (25)..(29)

<223> SEQ ID NO: 2, residues 30-34

<400> 12

Cys Lys Pro Glu Ala Pro Gly Glu Asp Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15

Leu Arg His Tyr Leu Asn Leu Cys Thr Arg Gln Arg Tyr
 20 25

<210> 13

<211> 26

<212> PRT

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<223> SEQ ID NO: 2, residues 2-7

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<222> (8)..(20)

<223> SEQ ID NO: 2, residues 16-28

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<222> (22)..(26)

<223> SEQ ID NO: 2, residues 30-34

<400> 13

Cys Lys Pro Glu Ala Pro Gly Asn Arg Tyr Tyr Ala Ser Leu Arg His

1 5 10 15

Tyr Leu Asn Leu Cys Thr Arg Gln Arg Tyr

20 25

<210> 14

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<212> PRT

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<222> (1)..(2)

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<223> SEQ ID NO: 2, residues 4-9

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<223> SEQ ID NO: 2, residues 15-23

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<223> SEQ ID NO: 2, residues 25-34

<400> 14

Ile Lys Cys Glu Ala Pro Gly Glu Asp Leu Asn Arg Tyr Tyr Ala Ser
1 5 10 15

Leu Arg Cys Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
20 25

<210> 15

<211> 26

<212> PRT

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<223> SEQ ID NO: 2, residues 4-7

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<222> (8)..(15)

<223> SEQ ID NO: 2, residues 16-23

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<222> (17)..(26)

<223> SEQ ID NO: 2, residues 25-34

<400> 15

Ile Lys Cys Glu Ala Pro Gly Asn Arg Tyr Tyr Ala Ser Leu Arg Cys

1 5 10 15

Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
 20 25

<210> 16

<211> 24

<212> PRT

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<222> (1)..(24)

<223> SEQ ID NO: 2, residues 11-34

<400> 16

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15

Asn Leu Val Thr Arg Gln Arg Tyr
 20

<210> 17

<211> 30

<212> PRT

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<222> (1)..(24)

<223> SEQ ID NO: 2, residues 11-34

<400> 17

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu

1 5 10 15

Asn Leu Val Thr Arg Gln Arg Tyr Lys Lys Lys Lys Lys Lys
 20 25 30

<210> 18
<211> 15
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<222> (1)..(15)
<223> SEQ ID NO: 2, residues 20-34

<400> 18

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 19
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<222> (1)..(15)
<223> SEQ ID NO: 2, residues 20-34

<400> 19

Ala Ser Leu Arg His Tyr Leu Asn Leu Val Thr Arg Gln Arg Tyr Lys
1 5 10 15

Lys Lys Lys Lys Lys

20

<210> 20

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<222> (1)..(16)

<223> SEQ ID NO: 2, residues 11-26

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<222> (17)..(17)

<223> Epsilon amino group in Lys-17 is bound to the C-terminus of SEQ
ID NO: 23 via a peptide bond

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<222> (18)..(24)

<223> SEQ ID NO: 2, residues 28-34

<400> 20

Ser Pro Glu Glu Leu Asn Arg Tyr Tyr Ala Ser Leu Arg His Tyr Leu
1 5 10 15

Lys Leu Val Thr Arg Gln Arg Tyr
20

<210> 21

<211> 15

<212> PRT

<213> Artificial

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<223> Synthetic PYY analogue

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<222> (1)..(7)
<223> SEQ ID NO: 2, residues 20-26

<220>
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<222> (8)..(8)
<223> Epsilon amino group in Lys-8 is bound to the C-terminus of SEQ ID
NO: 23 via a peptide bond

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<222> (9)..(15)
<223> SEQ ID NO: 2, residues 28-34

<400> 21

Ala Ser Leu Arg His Tyr Leu Lys Leu Val Thr Arg Gln Arg Tyr
1 5 10 15

<210> 22
<211> 21
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<220>
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<223> SEQ ID NO: 2, residues 1-5

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<222> (6)..(13)
<223> SEQ ID NO: 2, residues 19-26

<220>
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<222> (14)..(14)
<223> Epsilon amino group in Lys-14 is bound to the C-terminus of SEQ
ID NO: 23 via a peptide bond

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<222> (15)..(21)

<223> SEQ ID NO: 2, residues 28-34

<400> 22

Ile Lys Pro Glu Ala Tyr Ala Ser Leu Arg His Tyr Leu Lys Leu Val
1 5 10 15

Thr Arg Gln Arg Tyr
20

<210> 23

<211> 5

<212> PRT

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<220>

<223> Synthetic PYY analogue

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<222> (1)..(5)

<223> SEQ ID NO: 2, residues 1-5

<400> 23

Ile Lys Pro Glu Ala
1 5